

Title of Course	Design of Plastic Products		
Semester	Autumn/Spring		
Teaching Hours per Course:	Total	- Lectures:	- Project:
	45	15	30
ECTS Credits	4		
The content of education			
Aims of Course	Knowledge and skills acquiring related to the design of plastic products, taking into account the specific properties of polymer materials and the development of production technology of this type of products.		
Program	<p><b>Lectures:</b> Stages of design work associated with the production of plastic products. General requirements for the design of plastic parts. Detailed rules for the design of plastic products. The dimensional changes of plastic products and tolerances.</p> <p>Design elements with plastic for protection of the environment.</p> <p><b>Project:</b> The task of planning for the preparation of the initial assumptions for producing a plastic, including: choice of the plastic material, indication of the testing methods of raw materials, choice of manufacturing technology with the selection of equipment for various stages of production, identify methods to control the finished product, performance materials and energy balance. propose solutions that minimize negative environmental impacts of the proposed process, estimation of costs.</p> <p>Acquainted with the program SolidWorks. Implementation of 2D and 3D model of the product with the plastic using SolidWorks.</p> <p>The presentation made the project.</p>		
Conditions of completion	<p>The prerequisite is to obtain positive marks of:</p> <ul style="list-style-type: none"><li>– test in part lecture,</li><li>– the knowledge of SolidWorks,</li><li>– design task.</li></ul> <p>The task design is performed in groups. Passing the design task is carried out on the basis of the development of writing and its defense in the form of presentations and answer any questions the teacher.</p>		
Teacher	PhD. Eng. Karolina Brzezi ska		